PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 27 MAR 2006
WIPO PCT

Applicant's or agent's file reference E-2504/04 FOR FURTHER A		See Form PCT/IPEA/416		
International application No. PCT/EP2004/053057	International filing date (day/more 23.11.2004	Priority date (day/month/year) 24.11.2003		
International Patent Classification (iPC) or national classification and IPC INV. G05B23/02				
Applicant G.D. SOCIETA' PER AZIONI	•			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.				
2. This REPORT consists of a total of 6 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. sent to the applicant and to	The second of th			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
beyond the disclosure Supplemental Box.	e in the international application	s Authority considers contain an amendment that goes as filed, as indicated in item 4 of Box No. I and the		
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in celectronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications r	elating to the following items:			
	port			
☐ Box No. II Priority				
······ - ··· -	nent of opinion with regard to n	oveity, inventive step and industrial applicability		
☐ Box No. IV Lack of unity of	f invention			
⊠ Box No. V Reasoned state applicability; c	ement under Article 35(2) with tations and explanations suppo	regard to novelty, inventive step or industrial orting such statement		
☐ Box No. VI Certain docum	ents cited			
Box No. VII Certain defect	s in the international application	1		
☐ Box No. VIII Certain observ	rations on the international app	lication		
Date of submission of the demand		of completion of this report		
04.08.2005		3.2006		
Name and mailing address of the internation	onal Author	orized officer		
preliminary examining authority: ———————————————————————————————————	perie K			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/053057

	Вох	No. I Basis of the report	
1.	With filed	n regard to the language , this I, unless otherwise indicated u	report is based on the international application in the language in which it was inder this item.
		which is the language of a traditional search (under nublication of the international	lations from the original language into the following language, anslation furnished for the purposes of: er Rules 12.3 and 23.1(b)) ional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)
2.	hav	h regard to the elements* of the second to the receive ort as "originally filed" and are	the international application, this report is based on (replacement sheets which ving Office in response to an invitation under Article 14 are referred to in this not annexed to this report):
	Des	scription, Pages	
	1-10	0	as originally filed
	Cla	ims, Numbers	
	1-2	1	as originally filed
	Dra	wings, Sheets	
	1/5-	-5 <i>[</i> 5	as originally filed
		a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing
3.		The amendments have result the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specified any table(s) related to see	ecify):
4	ha Su	d not been made, since they I pplemental Box (Rule 70.2(c) ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specific any table(s) related to see	e <i>cify)</i> : equence listing <i>(specify)</i> :
	*	If item 4 applies, so	ome or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,5-10,12-21

No: Claims

1-2,4,11

Inventive step (IS)

Yes: Claims

3,5-10,17-18

No: Claims

1-2,4,11-16,19-21

Industrial applicability (IA)

Yes: Claims

1-21

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

D1:US-B-6330525 (C.HAYS ET AL) 11 December 2001(2001-12-11)

D2:US-B-6370957 (A.FILIPPENKO ET AL) 16 April 2002 (2002-04-16)

INDEPENDENT CLAIM 1

Claims 1-10 are not supported by the description as required by Article 6 PCT, as their scope is broader than justified by the description and drawings. The reasons therefor are the following: The claims refer to an operating component of an automatic machine which is very broad whereas the description refers to a fan unit.

Further the terms "measurement relative to a characteristic quantity", "first and second value which are functions of the first and second measurement", "given reference data", "function of the combination of the comparison", used in claim 1, and "function of the time pattern" used in claim 4, are vague and unclear and leave the reader in doubt as to the meaning of the technical features to which they refer, thereby rendering the definition of the subject-matter of said claims unclear, Article 6 PCT.

The wording of claim 1 is very broad and vague in such a way that it does not give enough information to the person skilled in the art to implement the invention.

Further the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document):

A method for PREDICTIVE MAINTENANCE of an

operating component of an automatic machine; (column 10, lines 55-56)

the method acquiring a first and a second measurement relative to a first (figure 16,step 1610)

and, respectively, a second characteristic quantity of the operating component (figure 16,step 1616),

obtaining a first and a second value (V) which are

10 functions of the first and, respectively, second measurement, and to compare the first and second value (V) with given reference data; (figure 16, steps 1610, 1616)

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the method being characterized by determining a specific defect of the operating component (figure 16,step 1618)

as a function of a combination of a comparison between the first value (V) and the given reference data with a comparison between the second value (V) and the given reference data, and/or as a function of a comparison between the given reference data and a combination of said first and second value (V); (figure 16, steps 1610, 1616) and programming maintenance to correct said defect, as a function of the combination of the comparison between the first value (V) and the given reference data with the comparison between the second value (V) and the given reference data, and/or as a function of the comparison between the given reference data and the combination of said first and second value

(figure 16,steps 1620-1618)

DEPENDENT CLAIMS 2,4,11

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 2,4,11 is not new in the sense of Article 33(2) PCT. The subject matter of claims 2,4,11 is disclosed in D1 (see column 21,line 20-column 26,line 43)

DEPENDENT CLAIMS 14-15,19,21

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 14-15,19,21 does not involve an inventive step in the sense of Article 33(3) PCT. The additional features of claims 14.15,19,21 are disclosed in D2 (see column 2, line 33-column 5, line 17)

DEPENDENT CLAIMS 12-13,20

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 14-15,19,21 does not involve an inventive step in the sense of Article 33(3) PCT. The features of claims 12-13,20 are merely some of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

DEPENDENT CLAIMS 3,5-10,17-18

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The dependent claims 3,5-10,17-18 meet the requirements of the PCT with respect to novelty and inventive step.